



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

**D2279**  
**Job Sheet 198035**



Part No: D2279

Job Qty: 60 pcs

Part Name: Step Spacer



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 7/19/19

Job Tracking No:

Due Date: 8/9/19

Created By: Linda Lacelle

Type: Stock

Description:

Note: DWG REV D IPP Rev: A New Issue 05-11-07 JLM IPP Rev: B Now on Waterjet 06-07-03 JLM

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation                     | Qty    | Start Date | Due Date | Standard  |         | Workcenter/Supplier    |  | Lead Time | Sign-off    |
|-------|-------------------------------|--------|------------|----------|-----------|---------|------------------------|--|-----------|-------------|
|       |                               |        |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier  |  |           |             |
| 121   | Purchasing                    | 60 pcs | 8/9/19     | 8/9/19   | 0.00      | 0.00    | Purchasing - 1         |  |           | JUL 29 2019 |
|       |                               |        |            |          |           |         | Purchasing - 2         |  |           |             |
|       |                               |        |            |          |           |         | Purchasing - 3         |  |           |             |
| 122   | Packaging 2-1 - Receive - B4B | 60 pcs | 8/9/19     | 8/9/19   | 0.00      | 0.00    | Packaging 2 - 1 - B4B  |  |           | JUL 29 2019 |
|       |                               |        |            |          |           |         | Packaging 2 - 2 - B4B  |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 3 - B4B  |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 5 - B4B  |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 4 - B4B  |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 6 - B4B  |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 7 - B4B  |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 8 - B4B  |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 9 - B4B  |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 10 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 11 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 12 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 13 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 14 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 15 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 16 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 17 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 18 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 19 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 20 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 21 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 22 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 23 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 24 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 25 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 26 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 27 - B4B |  |           |             |
|       |                               |        |            |          |           |         | Packaging 2 - 28 - B4B |  |           |             |



Container No: S200915

Part: D2279

Job No: 198035

Serial No/Batch: S200915

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Date: 07/28/19

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P.T.O.

SO RAP

|                                   |           |        |           |                             |  |
|-----------------------------------|-----------|--------|-----------|-----------------------------|--|
|                                   |           |        |           | Packaging 2 - 29 - B4B      |  |
|                                   |           |        |           | Packaging 2 - 30 - B4B      |  |
|                                   |           |        |           | Packaging 2 - 31 - B4B      |  |
|                                   |           |        |           | Packaging 2 - 32 - B4B      |  |
|                                   |           |        |           | Packaging 2 - 33 - B4B      |  |
|                                   |           |        |           | Packaging 2 - 34 - B4B      |  |
|                                   |           |        |           | Packaging 2 - 35 - B4B      |  |
|                                   |           |        |           | Packaging 2 - 36 - B4B      |  |
| 123 QC 6                          | 60<br>pcs | 8/9/19 | 0.00 0.00 | QC 6 - 9                    |  |
|                                   |           |        |           | QC 6 - 68                   |  |
|                                   |           |        |           | QC 6 - 61                   |  |
|                                   |           |        |           | QC 6 - 40                   |  |
|                                   |           |        |           | QC 6 - 81                   |  |
| 124 Waterjet - Flow - B4B         | 60<br>pcs | 8/9/19 | 0.00 1.00 | Waterjet - Flow - B4B       |  |
| 125 Small Fab - 2 - B4B           | 60<br>pcs | 8/9/19 | 0.00 1.00 | Small Fab - 1 - B4B         |  |
|                                   |           |        |           | Small Fab - 2 - B4B         |  |
|                                   |           |        |           | Small Fab - 3 - B4B         |  |
|                                   |           |        |           | Small Fab - 4 - B4B         |  |
|                                   |           |        |           | Small Fab - 5 - B4B         |  |
|                                   |           |        |           | Small Fab - 6 - B4B         |  |
|                                   |           |        |           | Small Fab - 7 - B4B         |  |
| 130 Small Fab - Brake NC - B4B    | 60<br>pcs | 8/9/19 | 0.25 0.60 | Small Fab - Brake - 1 - B4B |  |
|                                   |           |        |           | Small Fab - Brake - 2 - B4B |  |
|                                   |           |        |           | Small Fab - Brake - 3 - B4B |  |
| 140 QC 5                          | 60<br>pcs | 8/9/19 | 0.00 0.00 | QC 5 - 10                   |  |
|                                   |           |        |           | QC 5 - 12                   |  |
|                                   |           |        |           | QC 5 - 17                   |  |
|                                   |           |        |           | QC 5 - 18                   |  |
|                                   |           |        |           | QC 5 - 19                   |  |
|                                   |           |        |           | QC 5 - 22                   |  |
|                                   |           |        |           | QC 5 - 24                   |  |
|                                   |           |        |           | QC 5 - 3                    |  |
|                                   |           |        |           | QC 5 - 43                   |  |
|                                   |           |        |           | QC 5 - 49                   |  |
|                                   |           |        |           | QC 5 - 51                   |  |
|                                   |           |        |           | QC 5 - 58                   |  |
|                                   |           |        |           | QC 5 - 68                   |  |
|                                   |           |        |           | QC 5 - 9                    |  |
|                                   |           |        |           | QC 5 - 50                   |  |
|                                   |           |        |           | QC 5 - 30                   |  |
|                                   |           |        |           | QC 5 - 40                   |  |
|                                   |           |        |           | QC 5 - 61                   |  |
|                                   |           |        |           | QC 5 - 81                   |  |
| 150 Handfinish - 1-1 Chemical-B4B | 60<br>pcs | 8/9/19 | 0.00 1.27 | Handfinish - 1 - 1 - B4B    |  |
|                                   |           |        |           | Handfinish - 1 - 2 - B4B    |  |
|                                   |           |        |           | Handfinish - 1 - 3 - B4B    |  |
|                                   |           |        |           | Handfinish - 1 - 4 - B4B    |  |
|                                   |           |        |           | Handfinish - 1 - 5 - B4B    |  |
|                                   |           |        |           | Handfinish - 1 - 6 - B4B    |  |
|                                   |           |        |           | Handfinish - 1 - 7 - B4B    |  |
|                                   |           |        |           | Handfinish - 1 - 8 - B4B    |  |
|                                   |           |        |           | Handfinish - 1 - 9 - B4B    |  |
|                                   |           |        |           | Handfinish - 1 - 10 - B4B   |  |
|                                   |           |        |           | Handfinish - 1 - 11 - B4B   |  |
|                                   |           |        |           | Handfinish - 1 - 12 - B4B   |  |
|                                   |           |        |           | Handfinish - 1 - 13 - B4B   |  |

|                                 |           |        |           |                           |  |
|---------------------------------|-----------|--------|-----------|---------------------------|--|
|                                 |           |        |           | Handfinish - 1 - 14 - B4B |  |
|                                 |           |        |           | Handfinish - 1 - 15 - B4B |  |
|                                 |           |        |           | Handfinish - 1 - 16 - B4B |  |
|                                 |           |        |           | Handfinish - 1 - 17 - B4B |  |
|                                 |           |        |           | Handfinish - 1 - 18 - B4B |  |
|                                 |           |        |           | Handfinish - 1 - 19 - B4B |  |
|                                 |           |        |           | Handfinish - 1 - 20 - B4B |  |
|                                 |           |        |           | Handfinish - 1 - 21 - B4B |  |
|                                 |           |        |           | Handfinish - 1 - 22 - B4B |  |
| 160 QC 7                        | 60<br>pcs | 8/9/19 | 0.00 0.00 | QC 7 - 10                 |  |
|                                 |           |        |           | QC 7 - 13                 |  |
|                                 |           |        |           | QC 7 - 14                 |  |
|                                 |           |        |           | QC 7 - 15                 |  |
|                                 |           |        |           | QC 7 - 17                 |  |
|                                 |           |        |           | QC 7 - 18                 |  |
|                                 |           |        |           | QC 7 - 19                 |  |
|                                 |           |        |           | QC 7 - 2                  |  |
|                                 |           |        |           | QC 7 - 28                 |  |
|                                 |           |        |           | QC 7 - 3                  |  |
|                                 |           |        |           | QC 7 - 30                 |  |
|                                 |           |        |           | QC 7 - 34                 |  |
|                                 |           |        |           | QC 7 - 36                 |  |
|                                 |           |        |           | QC 7 - 37                 |  |
|                                 |           |        |           | QC 7 - 41                 |  |
|                                 |           |        |           | QC 7 - 47                 |  |
|                                 |           |        |           | QC 7 - 48                 |  |
|                                 |           |        |           | QC 7 - 51                 |  |
|                                 |           |        |           | QC 7 - 58                 |  |
|                                 |           |        |           | QC 7 - 59                 |  |
|                                 |           |        |           | QC 7 - 60                 |  |
|                                 |           |        |           | QC 7 - 9                  |  |
|                                 |           |        |           | QC 7 - 68                 |  |
|                                 |           |        |           | QC 7 - 50                 |  |
|                                 |           |        |           | QC 7 - 67                 |  |
|                                 |           |        |           | QC 7 - 40                 |  |
|                                 |           |        |           | QC 7 - 24                 |  |
|                                 |           |        |           | QC 7 - 43                 |  |
|                                 |           |        |           | QC 7 - 61                 |  |
|                                 |           |        |           | QC 7 - 81                 |  |
| 170 Packaging 3-1 - Stock - B4B | 60<br>pcs | 8/9/19 | 0.00 0.00 | Packaging 3 - 1 - B4B     |  |
|                                 |           |        |           | Packaging 3 - 2 - B4B     |  |
|                                 |           |        |           | Packaging 3 - 3 - B4B     |  |
|                                 |           |        |           | Packaging 3 - 4 - B4B     |  |
|                                 |           |        |           | Packaging 3 - 5 - B4B     |  |
|                                 |           |        |           | Packaging 3 - 6 - B4B     |  |
|                                 |           |        |           | Packaging 3 - 7 - B4B     |  |
|                                 |           |        |           | Packaging 3 - 8 - B4B     |  |
|                                 |           |        |           | Packaging 3 - 9 - B4B     |  |
|                                 |           |        |           | Packaging 3 - 10 - B4B    |  |
|                                 |           |        |           | Packaging 3 - 11 - B4B    |  |
|                                 |           |        |           | Packaging 3 - 12 - B4B    |  |
|                                 |           |        |           | Packaging 3 - 13 - B4B    |  |
|                                 |           |        |           | Packaging 3 - 14 - B4B    |  |
|                                 |           |        |           | Packaging 3 - 15 - B4B    |  |
|                                 |           |        |           | Packaging 3 - 16 - B4B    |  |
|                                 |           |        |           | Packaging 3 - 17 - B4B    |  |
|                                 |           |        |           | Packaging 3 - 18 - B4B    |  |
|                                 |           |        |           | Packaging 3 - 19 - B4B    |  |
|                                 |           |        |           | Packaging 3 - 20 - B4B    |  |

|                |     |        |           |                        |  |
|----------------|-----|--------|-----------|------------------------|--|
|                |     |        |           | Packaging 3 - 21 - B4B |  |
|                |     |        |           | Packaging 3 - 22 - B4B |  |
|                |     |        |           | Packaging 3 - 23 - B4B |  |
|                |     |        |           | Packaging 3 - 24 - B4B |  |
|                |     |        |           | Packaging 3 - 25 - B4B |  |
|                |     |        |           | Packaging 3 - 26 - B4B |  |
|                |     |        |           | Packaging 3 - 27 - B4B |  |
|                |     |        |           | Packaging 3 - 28 - B4B |  |
|                |     |        |           | Packaging 3 - 29 - B4B |  |
|                |     |        |           | Packaging 3 - 30 - B4B |  |
|                |     |        |           | Packaging 3 - 31 - B4B |  |
|                |     |        |           | Packaging 3 - 32 - B4B |  |
|                |     |        |           | Packaging 3 - 33 - B4B |  |
|                |     |        |           | Packaging 3 - 34 - B4B |  |
|                |     |        |           | Packaging 3 - 35 - B4B |  |
|                |     |        |           | Packaging 3 - 36 - B4B |  |
| 180 QC 21 - SA | 60  | 8/9/19 | 0.00 0.00 | QC 21 - SA - 21        |  |
|                | pcs |        |           | QC 21 - SA - 70        |  |
|                |     |        |           | QC 21 - SA - 53        |  |

Part Op 121 - ISSUE P/O: \_\_\_\_\_ MANUFACTURE D2279 AS PER DWG \*\*\*\*\*IMPORTANT, VERIFY GRAIN

Descriptions: DIRECTION AS PER DWG\*\*\*\*\* C OF C IS REQUIRED

124 - \*\*\*\*\*CHECK GRAIN DIRECTION\*\*\*\*\* DEBURR ON DEBURRING MACHINE (no set-up time required)

125 - FORM FLANGE AS PER DWG USING DT8174

130 - Bend as per Dwg D2279

140 - (QC5- Inspect part completeness to step on W/O)

150 - (Chemical Conversion Coat per QSI005 4.1)

160 - QC7-Inspect Chemical Conversion Coat)

170 - (Identify as per dwg & Stock Location: \_\_\_\_\_) LOCATION : GA

180 - (QC21- Final Inspection - Work Order Release)

| Job BOM      |                    |                     |                |           |
|--------------|--------------------|---------------------|----------------|-----------|
| Part / Item  | Component Name     | Quantity            | Operation      | Container |
| D2279P       | Step Spacer        | 60 (1 ea)           | 121-Purchasing | 5200914   |
| M2024T3S.040 | 2024-T3 .040 Sheet | 8.8200 sf (.147 ea) | 121-Purchasing | 5191572   |
|              |                    |                     |                | (5199776) |

| Job Allocations |                |          |           |           |
|-----------------|----------------|----------|-----------|-----------|
| Operation       | Component Part | Required | Inventory | Allocated |
| 21-Purchasing   | D2279P         | 60       | 0         | 0         |
|                 | M2024T3S.040   | 9        | 180       | 0         |

| Part Specifications |             |                                |                |          |                  |
|---------------------|-------------|--------------------------------|----------------|----------|------------------|
| Spec No             | Description | Target/Tolerance               | Limits         | Type     | Special Comments |
| 1                   | Step Spacer | 0.250Inches ± 0.005            | 0.255<br>0.245 |          |                  |
| 2                   | Step Spacer | 2.214Inches ± 0.005            | 2.219<br>2.209 |          |                  |
| 3                   | Step Spacer | 4.178Inches ± 0.005            | 4.183<br>4.173 |          |                  |
| 4                   | Step Spacer | 4.428Inches ± 0.010            | 4.438<br>4.418 |          |                  |
| 5                   | Step Spacer | 0.250Inches ± 0.005            | 0.255<br>0.245 |          |                  |
| 6                   | Step Spacer | 1.313Inches ± 0.005            | 1.318<br>1.308 |          |                  |
| 7                   | Step Spacer | 3.313Inches ± 0.005            | 3.318<br>3.308 |          |                  |
| 8                   | Step Spacer | 4.625Inches ± 0.010            | 4.635<br>4.615 |          |                  |
| 9                   | Step Spacer | 0.128Inches + 0.005<br>- 0.000 | 0.133<br>0.128 | Diameter |                  |
| 10                  | Step Spacer | 1.250Inches + 0.005<br>- 0.000 | 1.255<br>1.250 | Diameter |                  |
| 11                  | Step Spacer | 0.125Inches ± 0.010            | 0.135<br>0.115 | Radius   |                  |

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Dart Aerospace Ltd.  
1270 Aberdeen St  
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K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER POHB044092



**Supplier:** ACI002-VC  
Acler Duval Steel  
5888 Country Road 17  
Plantagenet  
ON  
K0B 1L0 Canada  
Phone: 613-673-5474  
Fax: 613-673-4576

**PO No:** POHB044092

**PO Date:** 7/23/19

**Due Date:** 7/31/19

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Guerin, Kimberley  
Phone: 613-632-5200 Ext: 298  
kguerin@dartaero.com

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:**

**E-MAILED**  
2019-07-23

## Items

| Line Item           | Job    | Part     | Supplier Part No | Item No | Description                                                   | Status | Account          | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD)  | Extended Price |
|---------------------|--------|----------|------------------|---------|---------------------------------------------------------------|--------|------------------|----------|----------------|-------------------|---------|-------------------|----------------|
| 1                   | 198033 | D2278P   |                  |         | Step Leg<br>: Various STC's<br>as per drawing<br>D2278 RevF   | Firmed |                  | 7/31/19  | 70 Ea          | 0 Ea              | 70 Ea   | \$8.00/Ea         | \$560.00       |
|                     |        |          |                  |         |                                                               |        | 59 x JUL 29 2019 |          |                |                   |         |                   |                |
| 2                   | 198034 | D3065-5P |                  |         | Step Leg<br>: Various STC's<br>as per Dwg<br>D3065-5 RevB     | Firmed |                  | 7/31/19  | 80 Ea          | 0 Ea              | 80 Ea   | \$8.40/Ea         | \$672.00       |
|                     |        |          |                  |         |                                                               |        | 80 x JUL 29 2019 |          |                |                   |         |                   |                |
| 3                   | 198035 | D2279P   |                  |         | Step Spacer<br>: Various STC's<br>as per Dwg<br>D2279 Rev D   | Firmed |                  | 7/31/19  | 60 Ea          | 0 Ea              | 60 Ea   | \$3.10/Ea         | \$186.00       |
|                     |        |          |                  |         |                                                               |        | 60 x JUL 29 2019 |          |                |                   |         |                   |                |
| 4                   | 198036 | D3065-1P |                  |         | Step Spacer<br>: Various STC's<br>as Per Dwg<br>D3065-1 Rev B | Firmed |                  | 7/31/19  | 80 Ea          | 0 Ea              | 80 Ea   | \$3.05/Ea         | \$244.00       |
|                     |        |          |                  |         |                                                               |        | 80 x JUL 29 2019 |          |                |                   |         |                   |                |
| <b>Grand Total:</b> |        |          |                  |         |                                                               |        |                  |          |                |                   |         | <b>\$1,662.00</b> |                |

*[Handwritten signature]*



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**PURCHASE ORDER**  
**POHB044092**



**Order Notes**

Procurement Quality Clauses

- A005 RIGHT OF ENTRY
- A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION SENT TO DART AEROSPACE)
- A012 CHEMICAL AND PHYSICAL TEST REPORTS
- A016 PERSONNEL QUALIFICATION
- A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)
- A026 CERTIFICATION OF MATERIAL CONFORMANCE
- A041 QUALITY MANAGEMENT SYSTEM
- A042 DART NOTIFICATION BY SUPPLIER
- A043 RETENTION OF QUALITY DOCUMENT

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

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## Certificate of Conformance

Customer Name: DART Aerospace Supplier Reference, if applicable:

Name:

Invoice :

7984

Customer Purchase Order:

#: POHBO44092 ✓

| Material Size | Material Type | Heat/Lot# | Qty  | Mill/Manu. name: |
|---------------|---------------|-----------|------|------------------|
|               | Drawing       | 2279 ✓    | 60 ✓ |                  |
|               |               |           |      |                  |
|               |               |           |      |                  |
|               |               |           |      |                  |
|               |               |           |      |                  |

We certify that the above materials) were purchased by [Acier Duval Steel division JD Welding Inc.] and conform to the requirements of your purchase order. Any attachments provided are unedited copies of the original Manufacturer's test reports/documents.

Signature: Felip Duval ✓

Name: Felip Duval

Date: 26 Juillet 2019



|                                                                        |                           |          |                   |
|------------------------------------------------------------------------|---------------------------|----------|-------------------|
| Manufacturing Procedure                                                |                           |          |                   |
| Client                                                                 | DART Aerospace            |          |                   |
| Part Number                                                            | D2279                     |          |                   |
|                                                                        |                           |          |                   |
| Parts Manufacturing Procedure                                          | Time / # / Date           | Comments | Note by : initial |
| Matériel output                                                        |                           |          |                   |
| Sheet number                                                           | M2024F35<br>S191572       | 48x96    | F.Ø               |
| Date and time of materiel output                                       | 24 Juillet<br>2019 7:30Am |          | F.Ø               |
| Fabrication                                                            |                           |          |                   |
| Sheet thickness                                                        | 0.040                     |          | F.Ø               |
| Grain direction                                                        | Good                      |          | F.Ø               |
| Start time                                                             | 8h30 Am                   |          | F.Ø               |
| End time                                                               | 12h30 /                   |          | F.Ø               |
| Numbers of piece                                                       | 60                        |          | F.Ø               |
| Tool offset                                                            | 0.012                     |          | F.Ø               |
| Problem or comment                                                     |                           |          | F.Ø               |
| * The quality check sheet must be completed and placed with this sheet |                           |          |                   |
|                                                                        |                           |          |                   |
| Signature of the responsible person                                    | huf huf                   |          |                   |
| Date of signature                                                      | 24 Juillet                |          |                   |



|                                              |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
|----------------------------------------------|--|--------------------------------------------|--|-------------------------------------------|--|-------------------------------------|--|----------------------------------------------|--|----------------------------------------------|--|
| NCR No.                                      |  | Job: 198635                                |  | DISPOSITION                               |  | DEPARTMENT/PROCESS                  |  |                                              |  |                                              |  |
| Part No. 02279                               |  | Rework <input checked="" type="checkbox"/> |  | Scrap <input checked="" type="checkbox"/> |  | Cross tube <input type="checkbox"/> |  | Eng. (Non-AW) <input type="checkbox"/>       |  | Engineering <input type="checkbox"/>         |  |
| Date: AUG 22 2019                            |  | Sequence #: 123                            |  | QTY Affected: 60 of 60                    |  | Skid-tube <input type="checkbox"/>  |  | Prod. Eng. Coord. <input type="checkbox"/>   |  | Water Jet <input type="checkbox"/>           |  |
|                                              |  |                                            |  |                                           |  | Machining <input type="checkbox"/>  |  | Rec/Store/Packaging <input type="checkbox"/> |  | Supplier <input checked="" type="checkbox"/> |  |
|                                              |  |                                            |  |                                           |  | Large Fab <input type="checkbox"/>  |  |                                              |  | Quality <input type="checkbox"/>             |  |
| Description Work Order Deviation             |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| -Holes are too big                           |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| -supposed to be 0,128 to 0,133               |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| -Holes are 0,135 and up                      |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Disposition                                  |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| -Scrap                                       |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Completed By 12 09/18/26                     |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| AUG 27 2019                                  |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Lead hand / Supervisor                       |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| QC / QA Coordinator                          |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| AUG 22 2019                                  |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Fault Category                               |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Root Cause                                   |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Operator <input checked="" type="checkbox"/> |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Manufacturing Process                        |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Equip/Tooling                                |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Handling/Preservation                        |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Material                                     |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Product Improvement                          |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Process Improvement                          |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Human Factors                                |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Pressure/Forced                              |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Bending                                      |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Crushing                                     |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Cracks                                       |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Crimp/Kink/Ripple/Wave/Twist                 |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Marks/Chatter                                |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Mislabeled                                   |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Other/Details:                               |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Contamination                                |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Misaligned/off center                        |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| BOM/Route                                    |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Broken/Damage/Defect                         |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Incomplete/Unclear Instructions              |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Drill Holes                                  |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Fit/Function                                 |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Power Loss/Surge                             |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Folio/Program                                |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Grain Direction                              |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Weld                                         |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Wrong Stock Pulled                           |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Out of Sequence                              |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Off-set/Set-up                               |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Positioned Wrong                             |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Outside Tolerance                            |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Drawing                                      |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Finish                                       |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Part Lost/Missing                            |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |
| Misread                                      |  |                                            |  |                                           |  |                                     |  |                                              |  |                                              |  |